



Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2023-3419
Application: Changes Technical Grade Active Ingredient Product Chemistry - Specifications
Applicant: Corteva Agriscience Canada Company
Product: Nicosulfuron Technical Herbicide
Registration Number: 23516
Active ingredient (a.i.): Nicosulfuron
PMRA Document Number: 3612392

Purpose of Application

The purpose of this application was to add an alternate manufacturing process for Nicosulfuron Technical Herbicide.

Chemistry Assessment

Common Name: Nicosulfuron
English IUPAC* Chemical Name: 2-[[[(4,6-dimethoxypyrimidin-2-yl)carbamoyl]sulfamoyl]-N,N-dimethylpyridine-3-carboxamide
CAS† Chemical Name: 2-[[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl-3-pyridinecarboxamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Nicosulfuron Technical Herbicide has the following properties:

Property	Result
Colour and physical state	white solid
Nominal concentration	93.9%
Odour	paste-like
Density	0.31 mg/mL
Vapour pressure	1.6×10^{-11} mPa (at 25°C)
pH	4.5
Solubility in water	7.4 g/L

Property	Result
n-Octanol/water partition coefficient	-1.8 (pH 7)

The required chemistry data for Nicosulfuron Technical Herbicide have been provided, reviewed, and found to be acceptable.

Health, Environmental and Value Assessments

Health, environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and has found the information acceptable to add an alternate manufacturing process for Nicosulfuron Technical Herbicide.

References

PMRA

Document

Number	Reference
3482435	2023, Nicosulfuron TGAI MP Manufacturing Methods, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
3482436	2016, DuPont-44076 Validation of the Analytical Method for Determination of Nicosulfuron (DPX-V9360) in Technical Grade and End-Use Products, DACO: 2.13.1 CBI
3482437	2016, DuPont-44076 Confidential Attachment, DACO: 2.13.1 CBI
3482438	2016, DuPont-44300 Determination of Nicosulfuron (DPX-V9360), DACO: 2.13.1 CBI
3482439	2016, DuPont-44301 Description and Validation of the Analytical Methods for Determination of Impurities in Technical Grade Nicosulfuron (DPX-V9360), DACO: 2.13.1 CBI
3482440	2016, DuPont-44301 Confidential Attachment, DACO: 2.13.1 CBI
3482441	2016, DuPont-36788 Batch Analysis of Nicosulfuron (DPX-V9360) Technical, DACO: 2.13.3,2.13.4 CBI
3482442	2016, DuPont-36788 Batch Analysis of Nicosulfuron (DPX-V9360) Technical Confidential Attachment, DACO: 2.13.3,2.13.4 CBI
3482443	2016, DuPont-36788 Batch Analysis of Nicosulfuron (DPX-V9360) Technical Supplement No. 1, DACO: 2.13.3,2.13.4 CBI
3482444	2016, DuPont-36788 Supplement No. 1 Confidential Attachment, DACO: 2.13.3,2.13.4 CBI
3482445	2016, DuPont-36788 Batch Analysis of Nicosulfuron (DPX-V9360) Technical Supplement No. 2, DACO: 2.13.2 CBI
3482446	2016, DuPont-36788 Supplement No. 2 Confidential Attachment, DACO: 2.13.2 CBI
3482447	2016, DuPont-36788 Batch Analysis of Nicosulfuron (DPX-V9360) Technical Supplement No. 3, DACO: 2.13.2 CBI
3482448	2016, DuPont-36788 Supplement No. 3 Confidential Attachment, DACO: 2.13.2 CBI

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